

**IN THE CLAIMS:**

Please amend the claims as follows:

12. (Twice Amended) A method for producing a light integrator, comprising the following steps for forming a cavity of the integrator having an inner reflective coating:

  fabricating at least two parts from which the light integrator can be assembled and which comprise surfaces provided as inner sides of the cavity;

  providing reflective coating on at least the surfaces of the parts;

  assembling and fastening the parts;

  wherein the two parts are fabricated such that one of the two parts is provided with a projection for engaging in a cutout of the other part after assembly,

  and wherein fastening is carried out by this following steps:

  covering the assembled parts with shrink tubing, and;

  shrinking the tubing until a suitable strength of the integrator is achieved for reducing a possible gap between said two parts in which light could be lost.

14. (Twice Amended) A light integrator for homogenization of a light bundle entering an input surface and exiting from an output surface, comprising:

  said light integrator having a cavity with an inner reflective coating for conducting light;

  said light integrator being composed of at least two parts whose surfaces, which face inward after assembly, are provided with said inner reflective coating prior to assembly;

  wherein one part is provided with a projection engaging in a cut out of the other part after assembly; and

  wherein the parts are held together by at least one piece of shrink tubing such that the parts contact one another to be practically light-proof.

19. (Twice Amended) The light integrator according to claim 14, wherein shrink tubing is arranged in the middle between the input surface and output surface for holding the parts together.

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23. (Amended) A light integrator for homogenization of a light bundle entering an input surface and exiting from an output surface comprising:

    said light integrator having a cavity with an inner reflective coating for conducting light; and

    said light integrator being composed of at least two parts whose surfaces, which face inward after assembly, are provided with said inner reflective coating prior to assembly;

    wherein one part is provided with a projection engaging in a cutout of the other part after assembly, wherein the inner sides and outer sides of the light integrator form a cavity and are planar,

    wherein the light integrator has the shape of a geometric prism with rectangular bottom and top surfaces provided as output and input surfaces, and the projection and cutout are rectangular or square in shape; and

    wherein the parts comprise two T-shaped and two I-shaped side parts and wherein the parts are held together by at least one piece of shrink tubing such that the parts contact one another to be practically light-proof.

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